

05078230 LOST RIVER AT OKLEE, MN

LOCATION.--Lat 47°50'35", long 95°51'30", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 2, T.150 N., R.41 W., Red Lake County, Hydrologic Unit 09020305, on left bank 30 ft upstream of bridge on State Highway 222 at northwest edge of Oklee, 12 mi upstream from mouth.

DRAINAGE AREA.--254 mi².

PERIOD OF RECORD.--April 1960 to September 1981, February 1982 to current year. Monthly and daily figures for April 1960 to June 1960, published in WSP 2113.

GAGE.--Water-stage recorder. Datum of gage is 1,126.94 ft above sea level, adjustment of 1912 (levels by U.S. Army Corps of Engineers). Prior to Sept. 9, 1960, reference points at same site at datum 8.00 ft higher. Sept. 9, 1960 to Sept. 30, 1964, nonrecording gage at same site at datum 8.00 ft higher. Oct. 1, 1964 to Sept. 30, 1981, and Feb. 24, 1982 to Sept. 6, 1989, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1897, 18.39 ft, present datum, Apr. 21, 1950, from floodmarks, discharge, 2,790 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.4	e14	e10	e8.0	e5.2	e7.9	e240	36	201	8.2	26	19
2	e2.6	e15	e10	e7.5	e5.2	e7.9	e210	34	155	8.0	24	18
3	e2.9	e14	e10	e7.0	e5.3	e8.0	e190	32	125	9.1	19	17
4	e3.5	e13	e10	e6.6	e5.4	e8.0	e180	31	104	12	16	17
5	e3.6	e13	e10	e6.3	e5.5	e8.0	e165	30	86	13	13	18
6	e3.4	e12	e10	e6.0	e5.6	e8.0	158	28	67	13	11	38
7	e3.8	e11	e10	e5.8	e5.7	e8.0	143	26	58	18	9.2	63
8	e4.0	e11	e10	e5.5	e5.8	e8.0	137	24	53	27	9.0	58
9	e4.5	e10	e10	e5.4	e5.9	e8.0	122	21	48	31	14	50
10	e4.4	e10	e9.5	e5.4	e6.0	e8.0	109	19	43	30	20	43
11	e6.7	e11	e9.1	e5.3	e6.1	e8.1	99	47	40	70	25	38
12	e7.4	e11	e8.6	e5.2	e6.2	e8.2	91	418	38	117	26	32
13	e7.6	e12	e8.2	e5.2	e6.3	e8.4	83	475	36	85	23	31
14	e7.4	e13	e8.0	e5.2	e6.5	e8.7	68	334	46	63	19	29
15	e7.2	e15	e8.0	e5.2	e6.6	e9.2	63	249	47	50	16	27
16	e7.5	e16	e8.0	e5.1	e6.8	e9.8	62	197	40	50	13	30
17	e7.9	e17	e8.0	e5.1	e6.9	e11	62	162	35	42	11	35
18	e8.5	e19	e8.2	e5.1	e7.1	e13	60	131	31	35	9.6	35
19	e8.9	e20	e8.4	e5.1	e7.2	e15	60	121	28	32	8.9	32
20	e9.1	e19	e8.6	e5.1	e7.3	e17	60	318	26	30	9.2	31
21	e9.7	e17	e9.1	e5.0	e7.4	e19	59	223	23	29	8.7	34
22	e10	e16	e9.4	e5.0	e7.4	e22	57	175	21	27	7.9	43
23	e9.9	e14	e9.6	e5.0	e7.4	e30	54	147	17	23	7.3	51
24	e10	e13	e9.8	e5.0	e7.5	e60	50	123	14	19	8.5	76
25	e11	e12	e10	e5.0	e7.5	e130	49	123	13	15	9.6	85
26	e12	e11	e10	e5.1	e7.6	e250	49	128	12	12	38	73
27	e12	e10	e10	e5.1	e7.7	e340	46	113	11	10	35	62
28	e13	e10	e10	e5.1	e7.8	e420	44	97	10	9.0	27	53
29	e13	e10	e9.5	e5.1	e7.9	e380	42	85	9.6	10	23	47
30	e13	e10	e9.0	e5.1	---	e325	38	152	8.7	17	20	44
31	e14	---	e8.5	e5.1	---	e330	---	257	---	22	19	---
TOTAL	240.9	399	287.5	170.7	190.8	2,494.2	2,850	4,356	1,446.3	936.3	525.9	1,229
MEAN	7.77	13.3	9.27	5.51	6.58	80.5	95.0	141	48.2	30.2	17.0	41.0
MAX	14	20	10	8.0	7.9	420	240	475	201	117	38	85
MIN	2.4	10	8.0	5.0	5.2	7.9	38	19	8.7	8.0	7.3	17
AC-FT	478	791	570	339	378	4,950	5,650	8,640	2,870	1,860	1,040	2,440
CFSM	0.03	0.05	0.04	0.02	0.03	0.32	0.37	0.55	0.19	0.12	0.07	0.16
IN.	0.04	0.06	0.04	0.03	0.03	0.37	0.42	0.64	0.21	0.14	0.08	0.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	47.3	35.6	15.9	9.94	10.6	75.7	296	139	96.1	82.8	38.6	41.0
MAX	470	232	56.6	26.7	76.3	264	904	622	657	442	351	330
(WY)	(1972)	(1972)	(1978)	(1998)	(1998)	(1999)	(1996)	(1962)	(1962)	(1962)	(1985)	(1973)
MIN	1.02	1.11	0.05	0.00	0.00	0.19	29.5	10.5	8.20	1.99	1.17	0.00
(WY)	(1991)	(1977)	(1977)	(1977)	(1977)	(1964)	(1991)	(1980)	(1980)	(1961)	(1961)	(1990)

05078230 LOST RIVER AT OKLEE, MN—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL TOTAL	12,237.5		15,126.6		74.0	
ANNUAL MEAN	33.5		41.3		18.2	
HIGHEST ANNUAL MEAN					177	1962
LOWEST ANNUAL MEAN					18.2	1990
HIGHEST DAILY MEAN	1,000	Jun 26	475	May 13	3,040	Apr 11, 1969
LOWEST DAILY MEAN	1.2	Sep 4	2.4	Oct 1	a0.00	Feb 16, 1963
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 4	3.2	Oct 1	0.00	Feb 16, 1963
MAXIMUM PEAK FLOW			b558	May 12	c3,210	Apr 11, 1969
MAXIMUM PEAK STAGE			d9.89	Mar 28	d16.91	Apr 8, 1997
INSTANTANEOUS LOW FLOW			f2.4	Oct 1	a0.00	Feb 16, 1963
ANNUAL RUNOFF (AC-FT)	24,270		30,000		53,610	
ANNUAL RUNOFF (CFSM)	0.132		0.163		0.291	
ANNUAL RUNOFF (INCHES)	1.79		2.22		3.96	
10 PERCENT EXCEEDS	81		118		162	
50 PERCENT EXCEEDS	10		13		20	
90 PERCENT EXCEEDS	2.8		5.4		2.8	

- a Many days, several years.
- b Gage-height, 8.49 ft.
- c Gage-height, 14.91 ft. from floodmark.
- d Backwater from ice.
- e Estimated.
- f Estimated daily-mean.

